

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|--------------------|------------------|---------|---------------------|
| S1 | 5 | "551732".ap. | US-PGPUB; USPAT | ADJ | ON | 2007/12/10 09:05 |
| S2 | 6 | ("20050268999" "20070023281" "6331233" "6348113" "6348139" "7156963"). PN. | US-PGPUB; USPAT | ADJ | ON | 2007/12/10 09:06 |
| S3 | 154 | 148/668.ccls. | US-PGPUB; USPAT | ADJ | ON | 2007/12/11 14:10 |
| S4 | 63 | 148/668.ccls. and (tantalum or ta) | US-PGPUB; USPAT | ADJ | ON | 2007/12/11 14:10 |
| S5 | 3 | (tantalum or ta) and (nonrecrystal\$8) | US-PGPUB; USPAT | ADJ | ON | 2007/12/11 14:29 |
| S6 | 16 | (tantalum or ta) and (non-recrystal\$8) | US-PGPUB; USPAT | ADJ | ON | 2007/12/11 14:30 |
| S7 | 0 | 148/668.ccls. and (tantalum or ta) and (non-recrystal\$8 or nonrecrystal\$8) | US-PGPUB; USPAT | ADJ | ON | 2007/12/11 14:48 |
| S8 | 273 | 204/298.12.ccls. and (tantalum or ta) | US-PGPUB; USPAT | ADJ | ON | 2007/12/11 15:04 |
| S9 | 2 | 204/298.12.ccls. and (tantalum or ta) and (nonrecrystal\$8 or non- recrystal\$8) | US-PGPUB; USPAT | ADJ | ON | 2007/12/11 15:04 |
| S10 | 4 | (sputter\$4 with target) and (non-recrystal\$8 or nonrecrystal\$8) | US-PGPUB; USPAT | ADJ | ON | 2007/12/11 15:11 |
| S11 | 8 | (sputter\$4) and (non- recrystal\$8 or nonrecrystal\$8) | US-PGPUB; USPAT | ADJ | ON | 2007/12/11 15:14 |
| S12 | 1 | ta sputtering targets method manufacturing | EPO | ADJ | ON | 2007/12/11 15:20 |
| S13 | 605 | (tantalum or ta) and (sputter\$4 and (Vicker\$3 with hardness)) | US-PGPUB; USPAT | ADJ | ON | 2007/12/11 15:34 |
| S14 | 143 | ((tantalum or ta) with (sputter\$4)) and (Vicker \$3 with hardness) | US-PGPUB; USPAT | ADJ | ON | 2007/12/11 15:35 |
| S15 | 1 | ("20030082864").PN. | US-PGPUB; USPAT | OR | OFF | 2007/12/11 15:45 |
| S16 | 1 | ("20070089815").PN. | US-PGPUB; USPAT | OR | OFF | 2007/12/11 15:50 |

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|-----|-----|---|---|-----|-----|---------------------|
| S17 | 1 | ("20050284546").PN. | US-PGPUB; USPAT | OR | OFF | 2007/12/11 15:51 |
| S18 | 1 | ("6193821").PN. | US-PGPUB; USPAT | OR | OFF | 2007/12/11 15:55 |
| S19 | 10 | (sputter\$4) and (non-recrystal\$8 or nonrecrystal\$8) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2007/12/12 08:21 |
| S20 | 313 | tantalum and sputter\$4 target | JPO; DERWENT | ADJ | ON | 2007/12/12 08:45 |
| S21 | 12 | tantalum and sputter\$4 target and \$4recrystal\$8 | JPO; DERWENT | ADJ | ON | 2007/12/12 08:46 |
| S22 | 2 | (sputter\$4) and (non-recrystal\$8 or nonrecrystal\$8) | EPO; JPO; DERWENT | ADJ | ON | 2007/12/12 08:51 |
| S23 | 4 | (target) and (non-recrystal\$8 or nonrecrystal\$8) | EPO; JPO; DERWENT | ADJ | ON | 2007/12/12 08:52 |
| S24 | 55 | (target) and (non-recrystal\$8 or nonrecrystal\$8) | US-PGPUB; USPAT | ADJ | ON | 2007/12/12 08:57 |
| S25 | 18 | (tantalum or ta) and (non-recrystal\$8 or nonrecrystal\$8) | US-PGPUB; USPAT | ADJ | ON | 2007/12/12 09:17 |
| S26 | 924 | (tantalum or ta) with hardness | US-PGPUB; USPAT | ADJ | ON | 2007/12/12 09:37 |
| S27 | 43 | (tantalum or ta) with hardness with vicker | US-PGPUB; USPAT | ADJ | ON | 2007/12/12 09:37 |
| S28 | 57 | (tantalum or ta) with hardness with vicker | JPO; DERWENT | ADJ | ON | 2007/12/12 09:39 |
| S29 | 18 | (tantalum or ta) and (non-recrystal\$8 or nonrecrystal\$8) | US-PGPUB; USPAT | ADJ | ON | 2008/09/25 13:55 |
| S30 | 19 | (tantalum or ta) and (non-recrystal\$8 or nonrecrystal\$8 or nonrecrystal\$8) | US-PGPUB; USPAT | ADJ | ON | 2008/09/25 13:56 |
| S31 | 758 | (tantalum or ta) same \$5recrystal\$8 | US-PGPUB; USPAT | ADJ | ON | 2008/09/25 14:05 |
| S32 | 140 | (tantalum or ta) same \$5recrystal\$8 and anneal \$3 and roll\$4 | US-PGPUB; USPAT | ADJ | ON | 2008/09/25 14:06 |
| S33 | 71 | (tantalum or ta) same \$5recrystal\$8 and anneal \$3 and roll\$4 and target | US-PGPUB; USPAT | ADJ | ON | 2008/09/25 14:07 |

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| S34 | 67 | (tantalum or ta) same \$5recrystal\$8 and anneal \$3 and roll\$4 and sputter \$3 | US-PGPUB; USPAT | ADJ | ON | 2008/09/25 14:07 |
| S35 | 22 | (tantalum or ta) and (non-recrystal\$8 or nonrecrystal\$8) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/25 14:49 |
| S36 | 0 | (tantalum or ta) and (non-recrystal\$8 or nonrecrystal\$8) | JPO | ADJ | ON | 2008/09/25 14:50 |
| S37 | 77 | (non recrystal\$8 or non-recrystal\$8 or nonrecrystal\$8) | JPO | ADJ | ON | 2008/09/25 14:50 |
| S38 | 0 | (non recrystal\$8 or non-recrystal\$8 or nonrecrystal\$8) and (tantalum or ta) | JPO | ADJ | ON | 2008/09/25 14:50 |
| S39 | 0 | (non recrystal\$8 or non-recrystal\$8 or nonrecrystal\$8) and (sputter) | JPO | ADJ | ON | 2008/09/25 14:50 |
| S40 | 1 | (non recrystal\$8 or non-recrystal\$8 or nonrecrystal\$8) and (sputter\$5) | JPO | ADJ | ON | 2008/09/25 14:50 |
| S41 | 1 | (non recrystal\$8 or non-recrystal\$8 or nonrecrystal\$8) and target | JPO | ADJ | ON | 2008/09/25 14:51 |
| S42 | 1 | "08269701" | JPO | ADJ | ON | 2008/09/25 15:13 |
| S43 | 24 | (tantalum or ta) and (non-recrystal\$8 or nonrecrystal\$8 or non recrystal\$8) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/25 15:15 |
| S44 | 19 | "6348139" | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/25 15:18 |
| S45 | 55 | "6348113" | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/25 15:20 |
| S46 | 1449 | (tantalum or Ta) with target and (anneal\$4 same temperature) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/25 15:29 |

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| S47 | 167 | (tantalum or Ta) with target and (anneal\$4 same temperature) and \$5recrystal\$8 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/25 15:29 |
| S48 | 160 | (tantalum or Ta) with target and (anneal\$4 same temperature) and \$5recrystal\$8 and sputter \$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/25 15:29 |
| S49 | 3 | (tantalum or Ta) with target and (anneal\$4 same temperature) and non-recrystal\$8 and sputter\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/25 15:32 |
| S50 | 4 | (tantalum or Ta) with target and (anneal\$4) and non-recrystal\$8 and sputter\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/25 15:46 |
| S51 | 5 | (tantalum or Ta) with target and (anneal\$4) and non-recrystal\$8 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/25 15:47 |
| S52 | 5 | (tantalum or Ta) with target and (anneal\$4) and (nonrecrystal\$8 or non recrystal\$8 or non-recrystal\$8) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/25 15:49 |
| S53 | 32 | target and (anneal\$4) and (nonrecrystal\$8 or non recrystal\$8 or non-recrystal\$8) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/25 15:49 |
| S54 | 91 | Yamakoshi.in. and target | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/25 15:51 |
| S55 | 1 | Yamakoshi.in. and target and (nonrecrystal\$8 or non recrystal\$8 or non-recrystal\$8) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/25 15:52 |
| S56 | 7 | target same (nonrecrystal\$8 or non recrystal\$8 or non-recrystal\$8) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/25 15:52 |
| S57 | 6 | (tantalum or ta) same (nonrecrystal\$8 or non recrystal\$8 or non-recrystal\$8) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/25 15:55 |

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| S58 | 24 | (tantalum or ta) and (nonrecrystal\$8 or non recrystal\$8 or non-recrystal\$8) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/25 15:56 |
| S59 | 57 | (nonrecrystal\$8 or non recrystal\$8 or non-recrystal\$8) same anneal \$5 | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/25 16:01 |
| S60 | 7 | "6566161" | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2008/09/25 18:01 |
| S61 | 17 | ("3930895" "4111721"). PN. OR ("4334935"). URFN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2008/09/26 10:41 |
| S62 | 4458 | (tantalum or ta) same (sputter\$5) same target | US-PGPUB; USPAT; USOCR | ADJ | ON | 2008/09/26 11:28 |
| S63 | 1135 | (tantalum or ta) same (sputter\$5) same target and (anneal\$4 same \$5crystal\$8) | US-PGPUB; USPAT; USOCR | ADJ | ON | 2008/09/26 11:29 |
| S64 | 42 | (tantalum or ta) same (sputter\$5) same target and (anneal\$4 same \$5crystal\$8) and (tantalum or ta).ti. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2008/09/26 11:30 |
| S65 | 13 | recrystalli\$6 with temperature with (below or less) same (tantalum or Ta) same sputter\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/06/03 23:09 |
| S66 | 13 | recrystalli\$6 with temperature with (below or less or under) same (tantalum or Ta) same sputter\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/06/03 23:17 |
| S67 | 537 | (non recrystalli\$6) or (non-recrystalli\$6) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/06/03 23:24 |
| S68 | 30 | S67 and (tantalum or Ta) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/06/03 23:24 |
| S69 | 6 | S68 and sputter\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/06/03 23:24 |

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| S70 | 15 | ("20020063056" "20070062806" "20070062807" "6197134" "6323055" "6759143" "6770154" "6893513").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/06/04 09:28 |
| S71 | 68 | (tantalum or Ta) with sputter\$3 same \$4recrystalli\$6 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/06/04 09:53 |
| S72 | 81 | (tantalum or Ta) same (\$4recrystalli\$6 with (percent or percentage or "%")) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/06/04 10:15 |
| S73 | 28 | S72 and sputter\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/06/04 10:17 |
| S75 | 24 | "6348139" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/06/04 12:28 |
| S76 | 39 | ("4525417" "4619695" "4663120" "4762558" "4842706" "4889745" "4960163" "5074907" "5087297" "5282946" "5330701" "5400633" "5418071" "5468401" "5508000" "5513512" "5590389" "5600989" "5608911" "5673581" "5693203" "5772860" "5780755" "5798005" "5809393" "5993575" "5993621").PN. OR ("6348139").URPN. | US-PGPUB; USPAT; USOCR | ADJ | ON | 2009/06/04 12:29 |
| S77 | 2 | "20010054457" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | ADJ | ON | 2009/06/04 12:50 |
| S78 | 150 | (tantalum or ta) same \$5recrystal\$8 and anneal \$3 and roll\$4 | US-PGPUB; USPAT | ADJ | ON | 2009/06/04 17:53 |
| S79 | 800 | (tantalum or ta) same \$5recrystal\$8 | US-PGPUB; USPAT | ADJ | ON | 2009/06/04 17:53 |
| S80 | 22 | (tantalum or ta) and (non-recrystal\$8 or nonrecrystal\$8 or non recrystal\$8) | US-PGPUB; USPAT | ADJ | ON | 2009/06/04 17:53 |

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| S81 | 80 | (tantalum or ta) same \$5recrystal\$8 and anneal \$3 and roll\$4 and target | US-PGPUB; USPAT | ADJ | ON | 2009/06/04 17:53 |
| S82 | 77 | (tantalum or ta) same \$5recrystal\$8 and anneal \$3 and roll\$4 and sputter \$3 | US-PGPUB; USPAT | ADJ | ON | 2009/06/04 17:53 |
| S83 | 25 | (tantalum or ta) and (non-recrystal\$8 or nonrecrystal\$8) | US-PGPUB; USPAT; USOCR; EPO; JPO | ADJ | ON | 2009/06/04 17:53 |

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